## MFB SPEAKER SYSTEM

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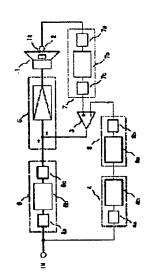
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## Abstract of JP10276492

PROBLEM TO BE SOLVED: To reduce non-liner distortion by providing a speaker always having an ideal voice coil vibration center by inserting 1st and 2nd average value filters for averaging respective outputs on the following stages of a displacement detecting means and a filter means. SOLUTION: On the rear stages of the digital filter 4 and the displacement detection sensor 2, 1st and 2nd average value filter 7, and 8 are respectively inserted. When displacement characteristics are inserted to the average value filter 7, its output shows the average position of the vibration system, namely, a central position in the displacement of vibration. In this case, when a distorted component at the time of even number exists at the real speaker, the central position in the displacement of the vibration short because of its influence. Therefore, when a signal detected by the displacement detection sensor 2 is inputted to the average value filter 7, its output applies the deviated central position in the vibration. Since the output of the digital filter 4 is a linear response, on the other hand, no distorted component exists and when a signal is a pure tone, for example, the displaced output passed through the average value filter 8 is turned to zero.



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